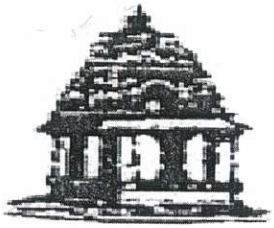

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION KODIGEHALLI SUB-DIVISION

Name of Work: IMPROVEMENTS OF ROADS AND DRAINS JANATHA COLONY, YELUMANDAMMA TEMPLE ROAD AND SURROUNDING AREAS IN WARD NO.09, HEBBAL KEMPAPURA

EST.COST: 64.50 LAKHS

NAME OF WORK: -:- IMPROVEMENTS OF ROADS AND DRAINS JANATHA COLONY, YELUMANDAMMA TEMPLE ROAD AND SURROUNDING AREAS IN WARD NO.09, HEBBAL KEMPAPURA

Estimated Cost :- 64.50lakhs

ABSTRACT

TOTAL AMOUNT	**RS**	53,27,293.66
GST	**18%**	9,58,912.86
TENDER PREMIUM	**3%**	1,59,818.81
MISCELLANEOUS	**RS**	3,974.67
GRAND TOTAL	**RS**	64,50,000.00

Assistant Engineer
Ward 11, Kodigehalli Sub-Division
BBMP

Asst. Executive Engineer
Kodigehalli Sub-Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

NAME OF WORK: -IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT JANATHA COLONY, YELUMANDAMMA TEMPLE ROAD AND SURROUNDING AREA IN WARD NO 09, HEBBAL KEMPAPURA.

DETAILED COST ESTIMATE

Estimate Cost : Rs.64.50 Lakhs

SL NO	PARTICULARS	UNIT	NO	MEASUREMENT			QUANTITY	RATE	AMOUNT
				LENGTH	BREADTH	DEPTH			
1	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-5/ Item no:-1.4.1]								
				New Drains					
	1st cross chowralappa Layout	Cum	1.00	200.00	1.00	1.00	**200.00**		
	2nd cross janatha colony	Cum	1.00	80.00	1.00	1.00	**80.00**		
	cross road	Cum	1.00	64.00	1.00	1.00	**64.00**		
				Culverts					
	Culverts	Cum	1.00	6.50	1.50	1.00	**9.75**		
	Culverts	Cum	3.00	5.50	1.50	1.00	**24.75**		
					Total		**378.50**	**266.20**	₹ 100,756.70
	Basic Rate	**242.00**							
	Add AW 10%	24.20							
	Total	**266.20**							
2	Providing and laying in **Position Cement Concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 Using 20 mm nominal size graded crushed coarse aggregates[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-15/ Item no:-2.1.4]								
				New Drains					
	1st cross chowralappa Layout	Cum	1.00	200.00	1.00	0.15	30.00		
	2nd cross janatha colony	Cum	1.00	80.00	1.00	0.15	12.00		
	cross road	Cum	1.00	64.00	1.00	0.15	9.60		
				Culverts					
	Culverts	Cum	1.00	6.50	1.50	0.15	1.46		
	Culverts	Cum	3.00	5.50	1.50	0.15	3.71		
					Total		**56.78**	**6838.70**	₹ 388,267.19
	Basic Rate	**6217.00**							
	Add AW 10%	621.70							
	Total	**6838.70**							
3	Providing and laying in Cement Concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.3.2]								
				New Drains					
	For Raft								
	1st cross chowralappa Layout	Cum	1.00	200.00	0.90	0.15	27.00		
	2nd cross janatha colony	Cum	1.00	80.00	0.90	0.15	10.80		
	cross road	Cum	1.00	64.00	0.90	0.15	8.64		
	For Walls								
	1st cross chowralappa Layout	Cum	2.00	200.00	0.15	0.60	36.00		
	2nd cross janatha colony	Cum	2.00	80.00	0.15	0.60	14.40		
	cross road	Cum	2.00	64.00	0.15	0.60	11.52		
					Sub Total A		**108.36**		
				Culverts					
	For Raft	Cum	1.00	6.50	1.50	0.15	1.46		
	For Side Wall	Cum	2.00	6.50	0.23	0.75	2.24		
	For Raft	Cum	3.00	5.50	1.50	0.15	3.71		
	For Side Wall	Cum	6.00	5.50	0.23	0.75	5.69		
					Sub Total B		**13.11**		

					Total A+B		121.47	7840.80	₹	952,421.98
	Basic Rate	**6480.00**								
	Centering & Shuttering 10%	648.00								
	Sub-Total	**7128.00**								
	Add AW 10%	712.80								
	Total	**7840.80**								
4	Steel Fabrication,Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. C) For Substructure of Bridges[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-91/ Item no:-2.11 C]									
	Quantity From Item 8[60kg/cum]		1.00	108.36		60.00	6501.60			
	Quantity From Item 8[90kg/cum]		1.00	13.11		90.00	1179.90			
						Tonne	7.68			
					Total		**7.68**	**95076.30**	₹	730,328.60
	Basic Rate	**86433.00**								
	Add AW 10%	8643.30								
	Sub-Total	**95076.30**								
5	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/ m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.[PWD SR 2023-24/ Volume-2/ Chapter-17/P.NO-177/ Item no:-17.14]									
	1st cross chowralappa Layout	Sqm	1.00	200.00	0.90		180.00			
	2nd cross janatha colony	Sqm	1.00	80.00	0.90		72.00			
	cross road	Sqm	1.00	64.00	0.90		57.60			
					Total		**309.60**	**1287.00**	₹	398,455.20
	Basic Rate	**1170.00**								
	A.W.@ 10%	**117.00**								
	Data Rate	**1287.00**								
6	Providing and fixing 230mm thick pre cast reinforced concrete slab as per design and drawing material cost,transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials(As per data rate)									
	For Culverts	Sqm	1.00	6.50	1.50		9.75			
	For Culverts	Sqm	3.00	5.50	1.50		24.75			
					Total		**34.50**	**5037.00**	₹	173,776.50
	Data Rate	**5037.00**								
7	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately. [PWD SR 2023-24/ Volume-3/ Chapter-2/P.NO-12/ Item no:-2.19]									
	2nd cross janatha colony	Cum	1.00	80.00	4.00	0.20	64.00			
					Total		**64.00**	**619.30**	₹	39,635.20
	Basic Rate	**563.00**								
	Add AW 10%	56.30								
	Total	**619.30**								
8	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. [PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-8/ Item no:-1.12]									
	1st cross chowralappa Layout	Cum	1.00	200.00	5.00	0.20	200.00			
	2nd cross janatha colony	Cum	1.00	80.00	3.20	0.20	51.20			
					Total		**251.20**	**104.50**	₹	26,250.40
	Basic Rate	**95.00**								
	Add AW 10%	9.50								
	Total	**104.50**								
9	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates. [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-15/ Item no:-2.1.1]									
	1st cross chowralappa Layout	Cum	1.00	200.00	5.00	0.15	150.00			
	2nd cross janatha colony	Cum	1.00	80.00	3.20	0.15	38.40			
					Total		**188.40**	**5871.80**	₹	1,106,247.12
	Basic Rate	**5338.00**								
	Add AW 10%	533.80								
	Total	**5871.80**								

10	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work. [PWD SR 2023-24/ Volume-3/ Chapter-16/P.NO-149/ Item no:-16.28								
	1st cross chowralappa Layout	Cum	1.00	200.00	5.00	0.15	150.00		
	2nd cross janatha colony	Cum	1.00	80.00	3.20	0.15	38.40		
					Total		150.00	7429.40	₹ 1,114,410.00
	Basic Rate	**6754.00**							
	Add AW 10%	675.40							
	Total	**7429.40**							
11	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work. [PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-7/ Item no:-1.8]								
	1st cross chowralappa Layout	Cum	0.50	200.00	5.00	0.30	150.00		
	(consider 50% soil filling)				Total		150.00	521.40	₹ 78,210.00
	Basic Rate	**474.00**							
	Add AW 10%	47.40							
	Total	**521.40**							
12	Unloading, Loading & Carriage of Materials Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 a]								
	Quantity From Item 1	Cum	1.00	378.50			378.50		
	Quantity From Item 7	Cum	1.00	64.00			64.00		
	Quantity From Item 8	Cum	1.00	251.20			251.20		
	Deduct Quantity From Item 11	Cum	1.00	150.00			-150.00		
					Total		543.70	148.50	₹ 80,739.45
	Basic Rate	**135.00**							
	Add AW 10%	13.50							
	Total	**148.50**							
13	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 i A]								
	Quantity from Item No-11	t.km	1.00	543.70	1.28		695.94		
						Total	695.94	198.00	₹ 137,795.33
	Basic Rate	**12.00**							
	15KM LEAD [12*15=180]	180.00							
	Add AW 10%	18.00							
	Total	**198.00**							
							Total		₹ 5,327,293.66
							Tender premium @3%		₹ 159,818.81
							GST 18%		₹ 958,912.86
							Miscelleneous		₹ 3,974.67
							Grand Total		₹ 6,450,000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2023-24 , and Data Rates.

Assistant Engineer
BBMP

Asst. Executive Engineer
BBMP

Executive Engineer
BBMP
ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ದ್ಯಾವರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

ADMINISTRATIVE SANCTION

Accorded for Rs. 64.50 Lakhs

Head of A/c. P1878

Div. Ref. No. 46 Date 15/10/24

AE/DM

EE(BTP) BBMP

Techni.Sanction
Accorded For Rs. 64.50 Lakhs
Head of A/C. P1878
CER NO : 53 Dt: 15/10/24